

产品名称: **Pyridostatin trifluoroacetate salt**

产品别名: **Pyridostatin; RR82 三氟乙酸盐**

生物活性:	
Description	Pyridostatin is a G-quadruplexe stabilizer, with a K_d of 490 nM.
IC₅₀ & Target	Kd: 490 nM (G-quadruplexe)[1]
In Vitro	Pyridostatin is a G-quadruplexe stabilizer, with a K_d of 490 nM[1]. Pyridostatin (PDS) shows neurotoxic activity against primary cortical neurons at 0.01-5 μ M, causes DNA double-strand breaks (DSBs) at 1 μ M, downregulates BRCA1 in neurons at 1, 2 or 5 μ M[2]. Pyridostatin interacts with G-quadruplex motifs in SRC and alters mRNA levels of damaged genes[3].
References	[1]. Koirala D, et al. A single-molecule platform for investigation of interactions between G-quadruplexes and small-molecule ligands. <i>Nat Chem</i>. 2011 Aug 28;3(10):782-7. [2]. Moruno-Manchon JF, et al. The G-quadruplex DNA stabilizing drug pyridostatin promotes DNA damage and downregulates transcription of Brca1 in neurons. <i>Aging (Albany NY)</i>. 2017 Sep 12;9(9):1957-1970. [3]. Rodriguez R, et al. Small-molecule-induced DNA damage identifies alternative DNA structures in human genes. <i>Nat Chem Biol</i>. 2012 Feb 5;8(3):301-10.
实验参考:	
Cell Assay	Cells are plated at equal confluence and either untreated or treated with 2 μ M Pyridostatin continually for 72 h. Cells from individual plates are trypsinized and counted in a Coultercounter. Graphs represent total cell numbers at each time interval and error bars represent S.E.M. Data represent three independent experiments[3].
References	[1]. Koirala D, et al. A single-molecule platform for investigation of interactions between G-quadruplexes and small-molecule ligands. <i>Nat Chem</i>. 2011 Aug 28;3(10):782-7. [2]. Moruno-Manchon JF, et al. The G-quadruplex DNA stabilizing drug pyridostatin promotes DNA damage and downregulates transcription of Brca1 in neurons. <i>Aging (Albany NY)</i>. 2017 Sep 12;9(9):1957-1970. [3]. Rodriguez R, et al. Small-molecule-induced DNA damage identifies alternative DNA structures in human genes. <i>Nat Chem Biol</i>. 2012 Feb 5;8(3):301-10.